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Modified Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	09/897,188
Filing Date	July 2, 2001
First Named Inventor	Gregory D. Jay
Group Art Unit	1646
Examiner Name	J. Kerr
Attorney Docket Number	21486-026 CIP2

U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
RM	AA	2,487,377	11/08/49	Roehner et al.	252	42.11	
RM	AB	2,734,862	02/14/56	Morway et al.	252	14	
RM	AC	2,878,184	03/17/59	March et al.	252	15	
RM	AD	4,108,849	08/22/78	Thomas	260	122	
RM	AE	4,438,100	03/20/84	Balslev et al.	424	104	
RM	AF	5,260,417	11/9/93	Grant et al.	530	351	

FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Applicant	Date of Publication	Translation Yes	No
RM	BA	PCT	WO 92/13075	Genetics Institute, Inc.	August 6, 1992		

OTHER NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
RM	CA	Aydelotte et al. (1992) "Heterogeneity of Articular Chondrocytes", *Articular Cartilage and Osteoarthritis*, Raven Press Ltd., New York, pp. 237-249.
RM	CB	J.P. Caron (1992) "Understanding the Pathogenesis of Equine Osteoarthritis", *Br. Vet.JSci.* USA, Vol. 149, pp. 369-371.
RM	CC	Flannery et al. (1999) "Articular Cartilage Superficial Zone Protein (SZP) is Homologous to Megakaryocyte Stimulating Factor Precursor and is a Multifunctional Proteoglycan with Potential Growth-Promoting, Cytoprotective, anmd Lubricating Properties in Cartilage Metabolism", *Biochemical and Biophysical Communications*, Vol. 254, pp. 535-541.
RM	CD	Garg et al (1979) "The Structure of the O-Glycosylically-linked Oligosacharide Chains of LPG-I, A Glycoprotein Present in Articular Lubricating Fraction of Bovine Synovial Fluid" *Carbohydrate Research*, Vol. 78, pp. 79-88.
RM	CE	Jay (1992) "Characterization of a Bovine Synovial Fluid Lubricating Factor. I. Chemical, Surface Activity and Lubricating Properties" *Connective Tissue Research*, Vol. 28, pp. 71-88
RM	CF	Jay et al. (1992) "Characterization of a Bovine Synovial Fluid Lubricating Factor. II. Comparison with Purified Ocular and Salivary Mucin" *Connective Tissue Research*, Vol. 28, pp. 89-98.
RM	CG	Jay et al. (1992) "Characterization of a Bovine Synovial Fluid Lubricating Factor. III. The Interaction with Hyaluronic Acid " *Connective Tissue Research*, Vol. 28, pp. 245-255.
RM	CH	Jay et al. (1990) "Silver Staining of Extensively Glycosylated Proteins on Sodium Dodecyl Sulfate-Polyacrylamide Gels: Enhancement by Carbohydrate-Binding Dyes", *Analytical Biochemistry*, Vol. 185, pp. 324-330.

Examiner Signature	RITA MITRA	Date Considered	10/12/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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RM	AG	5,326,558	07/05/94	Turner et al.	424	85.1	
RM	AH	5,510,121	04/23/96	Rhee et al.	424	520	
RM	AI	5,510,122	4/23/96/	Sreebny et al.	424	537	
RM	AJ	5,515,590	05/14/96	Pienkowswki	29	404	
RM	AK	5,612,028	03/18/97	Sackier et al.	424	93.7	
RM	AL	5,639,796	06/17/97	Lee	514	773	
RM	AM	5,702,456	12/30/97	Pienkowski	623	18	
RM	AN	5,709,020	01/20/98	Pienkowski et al.	427	2.26	

OTHER NON-PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
RM	CI	Jay et al. (1998) "Comparison of the Boundary-Lubricating Ability of Bovine Synovial Fluid, Lubricin, and Healon", J Biomed Mater Res, Vol. 40, pp. 414-418.
RM	CJ	Jay (1990), "Joint Lubrication: A Physicochemical Study of a Purified Lubrication Factor from Bovine Synovial Fluid", Thesis, Degree of Doctor of Philosophy, Basis Health Sciences (Cellular and Molecular Pathology), State University of New York.
RM	CK	Jay *et al.* (2000) "Lubricin is a product of megaryocyte stimulating factor gene expression by human synovial fibroblasts", *J. Rheumatology*, Vol. 27, No. 3, pp. 594-600.
RM	CL	Lorenzo et al. (1998) "A Novel Catilage Protein (CILP) Present in the Mid-zone of Human Articular Cartilage Increases with Age", *J of Biological Chemistry*, Vol. 273, No. 36, pp. 23463-23468.
RM	CM	Lorenzo et al. (1998) "Cloning and Deduced Amino Acid Sequence of a Novel Cartilage Protein (CILP) Identifies a Proform Including a Nucleotide Pyrophosphohydrolase", *J of Biological Chemistry*, Vol. 273, No. 36, pp. 23469-23475.
RM	CN	Merberg *et al.* (1993) "A Comparison of Vitronectin and Megakaryocyte Stimulating Factor", Elevier Science Publishers, B.V., pp. 45-53.
RM	CO	Merberg *et al.* (1997) "Megakaryocyte Stimulating Factor", EMBL Sequence Database Accession Number Q92954.
RM	CP	Merberg *et al.* (1997) "Human Megakaryocyte Stimulating Factor mRNA, complete cds", EMBL Sequence Database Accession Number U70136
RM	CQ	Schumacher et al. (1999) "Immunodetection and Partial cDNA Sequence of the Proteoglycan, Superficial Zone Protein, Synthesized by Cells Lining Synovial Joints", *J Orthopaedic Research*, Vol. 17, pp. 110-121.
RM	CR	Schumacher et al. (1994) "A Novel Proteoglycan Synthesized and Secreted by Chondrocytes of the Superficial Zone of Articular Cartilage", *Archives of Biochemistry and Biophysics*, Vol. 311, pp. 144-152.
RM	CS	Swann et al. (1985) "The Molecular Structure and Lubricating Activity of Lubricin Isolated from Bovine and Human Synovial Fluids", *Biochem J*, Vol. 225, pp. 195-201.

Examiner Signature	RITA MITRA	Date Considered	10/12/04

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Rm	CT	Swann et al. (1981) "The Molecular Structure of Lubricating Glycoprotein-I, the Boundary Lubricant for Articular Cartilage", *J. Biological Chemistry*, Vol. 256, No. 11, pp. 5921-5925.
Rm	CU	Turner et al. (1991) "Purification, Biochemical Characterization, and Cloning of a Novel Megakaryocyte Stimulating Factor that has Megakaryocyte Colony Stimulating Activity", Blood, Vol. 78 (Suppl. 1), pp. 279
	CV	Higaki et al. (1995) "Role of Constituents in Synovial-Fluid and Surface-Layer of Articular Cartilage in Joint Lubrication. 2. The Boundary Lubricating Ability of Protein" *Journal of Japanese Society of Tribologists*, Vol. 40, N7, pp. 598-604.

Japanese language Rm

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